

PATENT  
Attorney Docket No.: SAM-0313

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Soo-geun Lee, *et al.*  
Serial No.: 10/081,661  
Filing Date: February 22, 2002  
Title: METHOD OF MANUFACTURING INTERCONNECTION LINE IN SEMICONDUCTOR DEVICE

Examiner: Nguyen, H.  
Group Art Unit: 2812

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

1-15-04

Date

Amy Greer  
Amy Greer

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- [ ] under 37 CFR 1.129(a), or  
(First/Second submission after Final Rejection)
- [ ] under 37 CFR 1.97(b), or  
(Within three months of filing national application other than a CPA under §1.53(d); or within three months of date of entry of the national stage in international application; or before mailing date of first Office Action on the merits; or before mailing date of first Office Action after filing RCE under §1.114, whichever occurs last)
- [X] under 37 CFR 1.97(c) together with either:
- [ ] a Statement under 37 CFR 1.97(e), as checked below, or
- [X] the \$180.00 fee under 37 CFR 1.17(p), or  
(After the 37 CFR 1.97(b) time period, but before final action or notice of allowance, or other action which closes prosecution, whichever occurs first)
- [ ] under 37 CFR 1.97(d) together with:
- [ ] a Statement under 37 CFR 1.97(e), as checked below, and
- [ ] the \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Applicant(s): Soo-geun Lee, et al.  
Serial No.: 10/081,661

Statement Under 37 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Enclosed herewith is form PTO-1449:

- ☒ Copies of cited references are enclosed.
- ☐ Copies of cited references are enclosed except those entered in prior application, U.S. Serial No. \_\_\_\_\_, and references that are not required to be submitted under 37 CFR 1.98.
- ☐ The listed references were cited in a counterpart foreign application.

Concise Explanation Requirement (non-English references):

- ☐ The "concise explanation" requirement under 36 CFR 1.98(a)(3)(i) for reference XX is satisfied by:
  - ☐ the explanation provided on the attached sheet.
  - ☐ the explanation provided in the Specification.
  - ☐ abstract.

It is requested the information disclosed herein be made of record in this application.

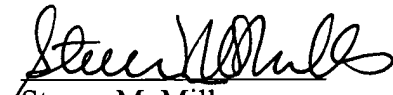
Applicant(s): Soo-geun Lee, et al.  
Serial No.: 10/081,661

Method of payment:

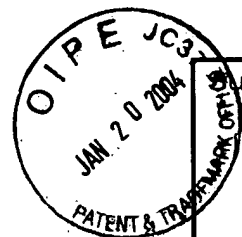
- ☒ Enclosed is a check in the amount of \$180.00.
- ☐ Please charge Deposit Account of 50-1798 in the amount of \_\_\_\_\_.
- ☐ Two duplicate copies of this Statement are enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account No. 50-1798.

Respectfully submitted,

Date: January 15, 2004  
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|--|----|---|----------|---|-----------------|---|-------------------------------|----|
| Subst. Form PTO-1449   |    |   |          | Docket Number (Optional)<br><b>SAM-0313</b> |                 | Application Number<br><b>10/081,661</b> |                               |    |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br><br>(Use several sheets if necessary)  |    |   |          | Applicant<br><b>Soo-geun Lee, et al.</b>    |                 |   |                               |    |
|  |    |   |          | Filing Date<br><b>2-22-02</b>               |                 | Group Art Unit<br><b>2812</b>           |                               |    |
| U. S. Patent Documents   |    |   |          |   |                 |   |                               |    |
| EXAMINER<br>INITIAL  |    | DOCUMENT<br>NUMBER  | DATE     | NAME  | CLASS           | SUBCLASS                                | FILING DATE<br>IF APPROPRIATE |    |
|  | AA |   |          |   |                 |   |                               |    |
|  | AB | 6,559,520   | 5/6/03   | Matsuki, et al.                             | 257             | 642                                     | 4/25/02                       |    |
|  | AC | 6,514,880   | 2/4/03   | Matsuki, et al.                             | 438             | 780                                     | 4/6/01                        |    |
|  | AD | 6,455,445   | 9/24/02  | Matsuki                                     | 438             | 789                                     | 3/28/01                       |    |
|  | AE | 6,432,846   | 8/13/02  | Matsuki                                     | 438             | 790                                     | 10/18/00                      |    |
|  | AF | 6,410,463   | 6/25/02  | Matsuki                                     | 438             | 790                                     | 10/18/00                      |    |
|  | AG | 6,383,955   | 5/7/02   | Matsuki, et al.                             | 438             | 790                                     | 6/7/99                        |    |
|  | AH | 6,352,945   | 3/5/02   | Matsuki, et al.                             | 438             | 778                                     | 6/7/99                        |    |
|  | AI | 6,057,239   | 5/2/00   | Wang, et al.                                | 438             | 689                                     | 12/17/97                      |    |
|  | AJ | 01/0046778  | 11/29/01 | Wang, et al.                                | H01L            | 21/302                                  | 3/22/00                       |    |
|  | AK |   |          |   |                 |   |                               |    |
| FOREIGN PATENT DOCUMENTS   |    |   |          |   |                 |   |                               |    |
|  |    | DOCUMENT<br>NUMBER  | DATE     | COUNTRY                                     | CLASS           | SUBCLASS                                | Translation                   |    |
|  |    |   |          |   |                 |   | YES                           | NO |
|  | AL |   |          |   |                 |   |                               |    |
|  | AM |   |          |   |                 |   |                               |    |
|  | AN |   |          |   |                 |   |                               |    |
|  | AO |   |          |   |                 |   |                               |    |
|  | AP |   |          |   |                 |   |                               |    |
|  | AQ |   |          |   |                 |   |                               |    |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   |    |   |          |   |                 |   |                               |    |
|  | AR | Jiang, P., et al., "Trench Etch Processes for Dual Damascene Patterning of Low-k Dielectrics, J. Vac. Sci. Technology, A 19(4), Jul/Aug 2001, p. 1388-1391. |          |   |                 |   |                               |    |
|  | AS |   |          |   |                 |   |                               |    |
|  | AT |   |          |   |                 |   |                               |    |
| EXAMINER   |    |   |          |   | DATE CONSIDERED |   |                               |    |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy with next communication to applicant. |    |   |          |   |                 |   |                               |    |